

# EUROPEAN PATENT OFFICE

## Patent Abstracts of Japan

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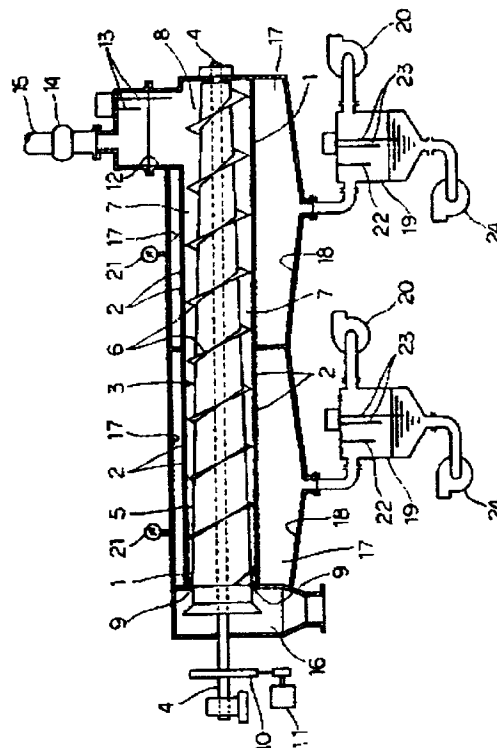
APPLICATION DATE : 31-05-84  
APPLICATION NUMBER : 59112064

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INVENTOR : AOYAMA YOSHIRO;

INT.CL. : B30B 9/14 C02F 11/12

TITLE : SCREW PRESS TYPE SLUDGE  
DEHYDRATOR



**ABSTRACT :** PURPOSE: To dehydrate sludge with high dehydrating power by disposing a filter cylinder for compressive dehydration of the sludge into evacuation chambers and evacuating the inside of said chambers to desired pressures according to the characteristics of the sludge to be dehydrated.

CONSTITUTION: The half on the high-pressure side of the filter cylinder 1 and the half on the low-pressure side thereof are disposed into the respectively segmented evacuation chambers 17. The chambers 17 are made evacuable by the respectively regulated suction forces to be generated by vacuum pumps 20. The pumps 20 in such constitution are driven to evacuate the inside of the chambers 17 to the desired pressures and a variable speed motor 11 is driven to rotate a screw shaft 3 at a desired speed. The sludge charged through a sludge feed port 12 is passed through a compressing passage 7 and while the sludge is gradually compressed by the screw shaft 3, the sludge is moved toward an outlet 9, by which the sludge is dehydrated; at the same time the sludge is dehydrated by the evacuation. The dehydrated sludge is dropped through the outlet 9 into a sludge dropping path 16.

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